BRUHAT BANGALORE MAHANAGARA PALIKE

ESTIMATE FOR DEVELOPMENT OF ROADS AND DRAINS FROM 1ST CROSS TO 10TH CROSS IN ATTUR LAYOUT AND SURROUNDING AREAS IN WARD NO.3

RATE ANALYSIS

(Based on Schedule of Rates for the year 2018- 2019 PW, P&IWTD Bangalore Circle.)

Sl. No.	Description of work	Unit	SR Page No	Item No.	Basic Rate in Rs.	AW 6%	Total Rate in Rs.
1	EWE For Foundation	Cum	256	34.15.1	180.00	10.80	190.80
2	PCC M10 For Bed	Cum	254	34.1	4226.00	253.56	4479.56
3	PCC M15 Using 20mm jelly	Cum	256	34.16	4649.00	278.94	4927.94
4	RCC M20For Drain	Cum	271	37.59.2	6670.00	400.20	7070.20
5	Providind TMT Steel Reinforcement	Tonne	239	29.29.3	70250.00	4215.00	74465.00
6	Providind &Fixing RCC Pre-cast Cover Slab 100mm thick	Sqm	Data Rate	--	2337.00	--	2337.00
7	Providind &Fixing RCC Pre-cast Cover Slab 250mm thick	Sqm	Data Rate	--	5418.00	--	5418.00

Assistant Engineer

Assistant Executive Engineer
No.2 Sub Division (West)
BDA, Bangalore

Executive Engineer
West Division
BDA, Bangalore

PRERANA CONSULTANTS
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PROJECT :- DEVELOPMENT OF ROADS AND DRAINS FROM 1ST CROSS TO 10TH CROSS IN ATTUR LAYOUT AND SURROUNDING AREAS IN WARD NO.3.

TOTAL COST ABSTRACT OF ESTIMATE

Sl No.	PARTICULARS	COST in Rs.
1	RCC Drains and Culverts	26226776.00
2	Add DPR & PMC Charges	558630.00
	Sub Total - 1	26785406.00
4	Add GST @ 12%	3214249.00
5	Rounding off	345.00
	Grand Total	30000000.00

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BRUHAT BANGALORE MAHANAGARA PALIKE

ESTIMATE FOR DEVELOPMENT OF ROADS AND DRAINS FROM 1ST CROSS TO 10TH CROSS ATTUR LAYOUT AND SURROUNDING AREAS IN WARD NO.3

Sl No	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
1	Earthwork in execavation for foundation of structure like culverts, retaining wall etc., as per drawing and technical specification, including setting out, construction of shoring and bracing, dressing of sides and bottom, back filling with approved material, disposal of balance earth as per specification, including cost of labour, HOM etc., complete. In all kinds of soil by manual means. (P.No.256, I.No.34.15.1 of PW,P&IWTD S.R 2018-19)								
	For RCC Drain	Cum							
	Attur Layout								
	4th cross Road		2	270.00	1.20	1.20	777.60		
	2nd Main Road		2	280.00	1.20	1.20	806.40		
	3rd Main Road		2	280.00	1.20	1.20	806.40		
	4th Main road		2	280.00	1.20	1.20	806.40		
	5th Main road		2	80.50	1.20	1.20	231.84		
	5th cross Road (From Tailor Shop)		1	140.00	1.20	0.90	151.20		
			1	93.00	1.20	0.90	100.44		
	For RCC Culvert		15	9.00	1.20	1.20	194.40		
							3874.68	286.20	**1108933.00**
	Basic Rate Rs.=	180.00							
	Add 6% A.W Rs. =	10.80							
	Sub Total =	190.80							
	15Km Lead, Loading and Unloading =	95.40							
	Total Rate Rs. =	**286.20**							
2	KSRRB M2900-1: Plain cement concrete M 10 mix with crushed stone aggregate 40mm nominal size mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days complete as per specifications, MORTH specifications No. 408, (P.No.254, I.No.34.1 of PW,P&IWTD S.R 2018-19)								
	For Drain	Cum							
	4th cross Road		2	270.00	1.20	0.15	97.20		
	2nd Main Road		2	280.00	1.20	0.15	100.80		
	3rd Main Road		2	280.00	1.20	0.15	100.80		
	4th Main road		2	280.00	1.20	0.15	100.80		
	5th Main road		2	80.50	1.20	0.15	28.98		
	5th cross Road (From Tailor Shop)		1	140.00	1.20	0.15	25.20		
			1	93.00	1.20	0.15	16.74		
	For RCC Culvert		15	9.00	1.20	0.15	24.30		
	For Road Sides								
	4th cross Road		2	270.00	0.40	0.15	32.40		
	2nd Main Road		2	280.00	0.40	0.15	33.60		
	3rd Main Road		2	280.00	0.40	0.15	33.60		
	4th Main road		2	280.00	0.40	0.15	33.60		
	5th Main road		2	80.50	0.40	0.15	9.66		
	5th cross Road (From Tailor Shop)		1	140.00	0.40	0.15	8.40		
			1	93.00	0.40	0.15	5.58		
							651.66	4479.56	**2919150.00**
	Basic Rate Rs.=	4226.00							
	Add 6% A.W Rs. =	253.56							
	Total Rate Rs. =	**4479.56**							

Sl No	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
3	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. With 20mm and sown size granite metal course aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compcted for walls and bottom including centring shuttering cost of material HOM of machinary curing etc., complete execluding cost of steel as per MORTH specification no. 1500, 1700, 2200 including cost of material labour HOM complete as per specification. (P.No.271, I.No.37.59.2 of PW, P&IWTD S.R 2018-19) wall & bottom thickness 15cm.								
	For RCC Drain	Cum							
	Bottom slab								
	4th cross Road	..	2	270.00	1.00	0.15	81.00		
	2nd Main Road		2	280.00	1.00	0.15	84.00		
	3rd Main Road		2	280.00	1.00	0.15	84.00		
	4th Main road		2	280.00	1.00	0.15	84.00		
	5th Main road		2	80.50	1.00	0.15	24.15		
	5th cross Road (From Tailor Shop)		1	140.00	1.00	0.15	21.00		
			1	93.00	1.00	0.15	13.95		
	side walls								
	4th cross Road		4	270.00	0.15	0.90	145.80		
	2nd Main Road		4	280.00	0.15	0.90	151.20		
	3rd Main Road		4	280.00	0.15	0.90	151.20		
	4th Main road		4	280.00	0.15	0.90	151.20		
	5th Main road		4	80.50	0.15	0.90	43.47		
	5th cross Road (From Tailor Shop)		2	140.00	0.15	0.60	25.20		
			2	93.00	0.15	0.60	16.74		
							1076.91		
	For RCC Culvert								
	Bottom slab	.. 15	1	9.00	1.00	0.20	27.00		
	side walls	15	2	9.00	0.20	0.90	48.60		
	deck slab	15	1	9.00	1.00	0.23	31.05		
							106.65		
						Net Qty.	**1183.56**	7070.20	**8368006.00**
	Basic Rate Rs.=	6670.00							
	Add 6% A.W Rs. =	400.20							
	Total Rate Rs. =	**7070.20**							
4	KSRRB - M2300-14: Providing TMT steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, palcing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining memebrs wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.MORTH Specification No. 1600 & 2200 for TMT bars Fe 500. (P.No.239, I.No.29.29.2 of PW, P&IWTD S.R 2018-19)								
	Considering steel For Drain @ 65 kg / cum	Tonne		1076.91	0.065	--	70.00		
	Considering steel For Culvert @ 95 kg / cum	..		106.65	0.095	--	10.13		
							80.13	73992.24	**5929065.00**
	Basic Rate Rs.=	69804.00							
	Add 6% A.W Rs. =	4188.24							
	Total Rate Rs. =	**73992.24**							
5	Providing and laying in position plain cement concrete of mix 1:2:4 for sub-structure works like culverts, retaining wall, etc., with cement @ 240 kgs, 40mm and sown size granite metal course aggregates at 0.84 cum and fine aggregates at 0.46 cum machine mixed, with necessary scaffolding, form work etc., including cost of labour, HOM curing etc., complete. (P.No.256, I.No.34.16 of PW, P&IWTD S.R 2018-19)								
	For Road Sides	Cum							
	4th cross Road		2	270.00	0.40	0.15	32.40		

Sl No	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
	2nd Main Road		2	280.00	0.40	0.15	33.60		
	3rd Main Road		2	280.00	0.40	0.15	33.60		
	4th Main road		2	280.00	0.40	0.15	33.60		
	5th Main road		2	80.50	0.40	0.15	9.66		
	5th cross Road (From Tailor Shop)		1	140.00	0.40	0.15	8.40		
			1	93.00	0.40	0.15	5.58		
							156.84	4927.94	**772898.00**
	Basic Rate Rs.=	4649.00							
	Add 6% A.W Rs. =	278.94							
	Total Rate Rs. =	**4927.94**							
6	Providing and fixing RCC precast cover slab of 100mm thick for drain in cement concrete 1:1.5:3 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate)								
	For drain cover slab	Sqm							
	4th cross Road		2	270.00	0.90	--	486.00		
	2nd Main Road		2	280.00	0.90	--	504.00		
	3rd Main Road		2	280.00	0.90	--	504.00		
	4th Main road		2	280.00	0.90	--	504.00		
	5th Main road		2	80.50	0.90	--	144.90		
	5th cross Road (From Tailor Shop)		1	140.00	0.90	--	126.00		
			1	93.00	0.90	--	83.70		
	Missing Slabs Surrounding Attur layout		24	12.00	0.90	--	259.20		
			14	6.00	0.75	--	63.00		
							2674.80	2337.00	**6251008.00**
7	Providing and fixing RCC precast cover slab of 250mm thick made out of CC 1:2:4 and jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate)								
	For Culvert Slabs	Sqm	15	9.00	1.20	--	**162.00**	5418.00	**877716.00**
								Sub Toatl 1 Rs.	**26226776.00**
8	Add DPR & PMC Charges								**558630.00**
								Sub Toatl 2 Rs.	**26785406.00**
10	Add GST @ 12%								**3214249.00**
11	Miscellaneous & Rounding off								345.00
								Total Rs.	**30000000.00**

CERTIFICATE:

1 The work spot has been inspected by me and the work is found to be necessary.
2 The estimate is prepared as per PW, P&IWTD S.R Bangalore circle for the year 2018-2019.
3 The Provisions made in the estimate are quite necessary and adequate.
4 The area comes with in the BBMP limits.

PRERANA CONSULTANTS
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#347, 2nd Floor, 10th Cross, Saraswathipuram,
Nandini Layout, Bangalore - 560 096
Mobile: 98450 69787 E-mail: raffipre@yahoo.com

Assistant Engineer 5/12/18

Assistant Executive Engineer
Yelahanka Project Sub Division
BBMP

5/12/18

Executive Engineer
Yelahanka Project Division
BBMP

5/12/18

APPROVED DATA
RATE TO BE ENCLOSED

Administrative Approval

Accorded For Rs.300.00 Lakhs
Head of A/C P-3521
CER NO : 34 **Dt:** 19/02/2019

E.E. (Project)

Technical Sanction
Accorded For Rs.300.00 Lakhs
Head of A/C P-3521
CER NO : 117 **Dt.** 5/12/18

TA CE (YNK)